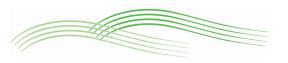


## Mathematics Key Stage 1

## National Curriculum Overview







Mathematics Year 1									
Number & place value	Number – addition & subtraction.	Number – multiplication & division.	Number - Fractions	Measurement	Geometry – properties of shape	Geometry – position & direction			
Pupils should be taught to:  count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number  count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens  given a number, identify one more and one less  identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least  read and write numbers from 1 to 20 in numerals and	Pupils should be taught to:  read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs  represent and use number bonds and related subtraction facts within 20  add and subtract one-digit and two-digit numbers to 20, including zero  solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as  read, write and interpretation in the subtraction and subtraction and subtraction and subtraction and subtraction and subtraction and pictorial representations, and missing number problems such as	Pupils should be taught to:  solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	Pupils should be taught to:  recognise, find and name a half as one of two equal parts of an object, shape or quantity.  recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	Pupils should be taught to:  compare, describe and solve practical problems for:  lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]  mass/weight [for example, heavy/light, heavier than, lighter than]  capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]  time [for example, quicker, slower, earlier, later]  measure and begin to record the following:  lengths and heights  mass/weight  capacity and volume  time (hours,	Pupils should be taught to:  recognise and name common 2-D and 3-D shapes, including:  2-D shapes [for example, rectangle s (including squares), circles and triangles]  3-D shapes [for example, rectangle s s (including squares), circles and triangles]  shapes [for example, cuboids (including cubes), pyramids and spheres].	Pupils should be taught to:  describe position, direction and movement, including whole, half, quarter and three-quarter turns.			







words.		minutes, seconds)
		recognise and know the value of different denominations of coins and notes
		sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
		<ul> <li>recognise and use language relating to dates, including days of the week, weeks, months and years</li> </ul>
		tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.







Mathematics Year 2							
Number & place value	Number – addition & subtraction.	Number – multiplication & division.	Number - Fractions	Measurement	Geometry – properties of shape	Geometry – position & direction	Statistics
Pupils should be taught to:  count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward  recognise the place value of each digit in a two-digit number (tens, ones)  identify, represent and estimate numbers using different representations, including the number line  compare and order numbers from 0 up to 100; use <, > and = signs  read and write numbers to at least 100 in numerals and in	Pupils should be taught to:  solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 add and subtract numbers using concrete objects, pictorial	Pupils should be taught to:  recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers  calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs  show that multiplication of two numbers can be done in any order (commutative) and division of one number by	Pupils should be taught to:  recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity  write simple fractions for example, $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ .	Pupils should be taught to:  choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels  compare and order lengths, mass, volume/capacity and record the results using >, < and =  recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value  find different	Pupils should be taught to:  I identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line  I identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces  I identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid]  Compare and sort common 2-	Pupils should be taught to:  order and arrange combinations of mathematical objects in patterns and sequences  use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).	Pupils should be taught to:  Interpret and construct simple pictograms, tally charts, block diagrams and simple tables  Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity  Ask and answer questions about totalling and comparing categorical data.







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words	representations,	another cannot		combinations of	D and 3-D		
<ul> <li>use place value</li> </ul>	and mentally,	<ul> <li>solve problems</li> </ul>		coins that equal the	shapes and		
and number	including:	involving		same amounts of	everyday		
facts to solve	<ul><li>a two-digit</li></ul>	multiplication and		money	objects.		
problems.	number and ones	division, using	١.	solve simple			
problems.	number and ones	materials, arrays,		problems in a			
	<ul> <li>a two-digit</li> </ul>	repeated		practical context			
	number and tens	addition, mental		involving addition			
		methods, and		and subtraction of			
	<ul> <li>two two-digit</li> </ul>	· ·					
	numbers	multiplication and		money of the same			
	<ul> <li>adding three one-</li> </ul>	division facts,		unit, including			
	digit numbers	including		giving change			
		problems in		compare and			
	<ul><li>show that</li></ul>	contexts.		sequence intervals			
	addition of two			of time			
	numbers can be						
	done in any order			ton and write the			
	(commutative)			time to five			
	and subtraction			minutes, including			
	of one number			quarter past/to the			
	from another			hour and draw the			
	cannot			hands on a clock			
	<ul> <li>recognise and</li> </ul>			face to show these			
	roooginoo ana			times			
	use the inverse		١.	know the number of			
	relationship			minutes in an hour			
	between addition						
	and subtraction			and the number of			
	and use this to			hours in a day.			
	check						
	calculations and						
	solve missing						
	number						
	problems.						





